6. Gowri

Program Name: Gowri.java   Test Input File: gowri.dat

Gowri loves shapes and needs a program that makes a weird shape. Gowrie does not like normal shapes and wants a square, but with the corners angled with three asterisks. For instance, this is a 4 X 4 square, with the 3-asterisk diagonal corners.

```
    * * * *
   *       *
  *         *
 *           *
*             *
*             *
*             *
*             *
 *           *
  *         *
   *       *
    * * * *
```

Input: The first line is T (T ≤ 100), the number of data sets. Each data set has one integer >1 and ≤ 20.

Output: A square made up of asterisks with corner diagonals of exactly 3 asterisks, each pattern followed by a row of 20 dashes.

Example Input:
```
2
4
2
```

Example Output:
```
    * * * *
   *       *
  *         *
 *           *
*             *
*             *
*             *
*             *
 *           *
  *         *
   *       *
    * * * *
--------------------
   * *
  *   *
 *     *
*       *
*       *
 *     *
  *   *
   * *
--------------------
```